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ABSTRACT OF THE DISCLOSURE

An air impingement arrangement and method for compensating for the curling tendency of a paper or board web which is being treated. Air impingement is disposed in connection with a paper or board process or with its finishing process and extends across the width of the web (10) running in the vicinity thereof, forming a contact-free web treatment zone, in which process the web is dried in at least one dryer unit (3, 5, 7) that applies single-wire draw. In accordance with the invention, air impingement directed at the web (10) is produced by the air impingement arrangement (20) in the web treatment zone, said air impingement including, one following after the other, at least one hot blowing with air and at least one cold blowing with air. The invention also relates to a paper or board machine provided with this kind of air impingement arrangement.